

# TXC

**"Bringing Innovation to the Fleet"**



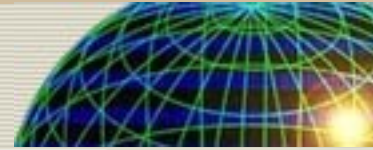
**Dr. David J. Roberts**  
**SPAWARSYSCEN, San Diego, CA**





## History and Charter of TXC...

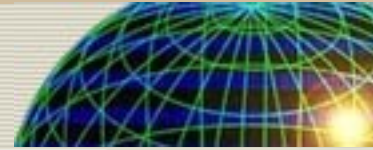
- **TXC started as the “best practices” of the SPAWAR Chief Technology Office, +26 months ago**
- **TXC replaces a manual process of scouting and transitioning technology to the fleet**
- **TXC proposed to the DON eBusiness Office**
  - Submitted in May 2003
  - Funded in August 2003
  - Six month pilot from September 2003 to February 2004
- **TXC charter is presently only DON... Future DoD and eGov applications are possible**



## **TXC's Business Value is...**

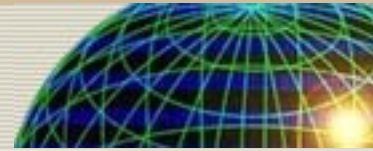
- **The early identification of technology solutions to match emerging fleet requirements**
- **A method for determining candidate architectures for new and changing requirements**
- **A way to manage the Department of the Navy's technology portfolio...**
  - S&T investments
  - R&D efforts
  - Fleet experiments, etc.
- **Wider selection of applicable technology solutions based on a comprehensive coverage of technologies**

**TXC = Innovation<sup>(n)</sup>**



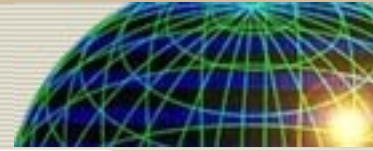
## **TXC's Purpose is to Provide...**

- **A standardized method for the classification of technologies and products of interest**
- **Capability and requirements based technology assessments**
- **Timely technology solutions through direct vendor input and information maintenance**
- **Competitive solutions through a fair and open assessment process...**
  - Instant Trade Studies... by maturity, capability, mission area, etc.
  - Gap and Opportunity Analysis

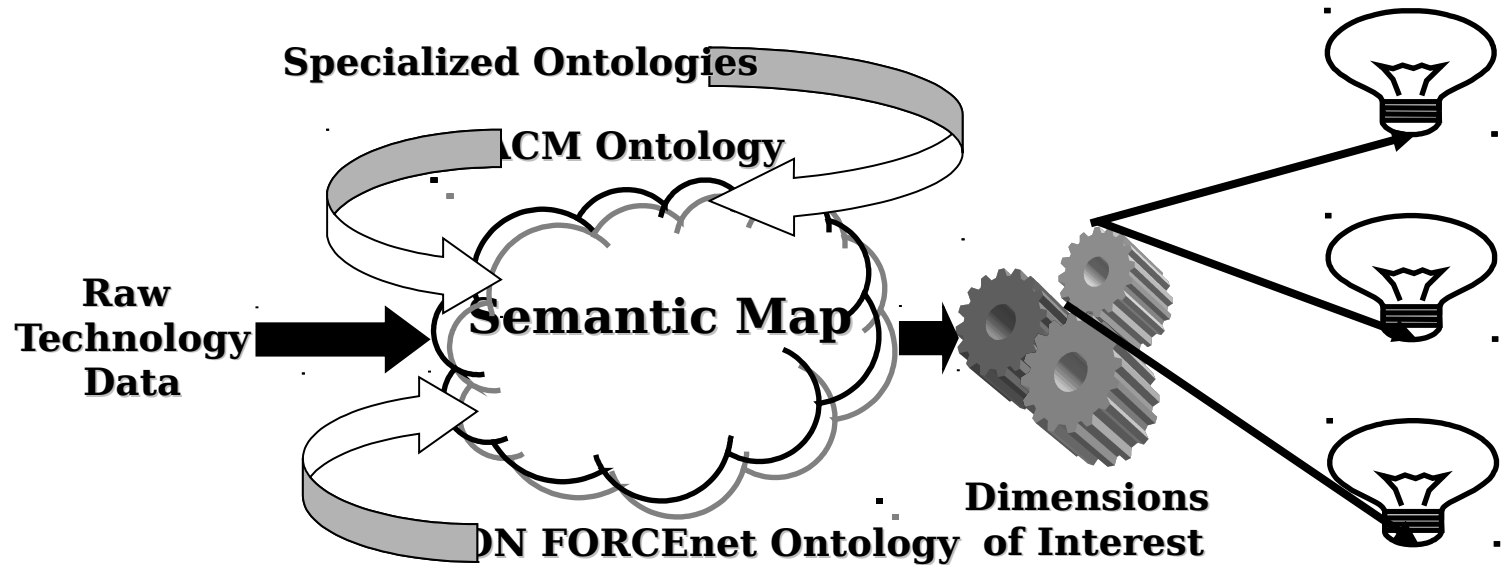


## **TXC... What Does It Do?**

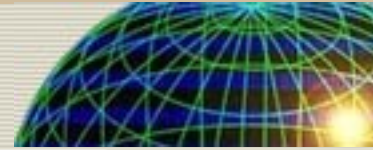
- **Provides a single process for DON to assess technologies of interest**
- **Technology attributes are mapped to client centric views**
  - Who you are, and your interests, determine what you see
  - Universal “translator” of concepts and ideas
- **Links logical information (requirements and capabilities) to physical technologies**
- **Aligns fleet requirements to technology solutions**



## TXC... How does it work?



**Related Information + Context = Solutions**



## **TXC Results...**

- **Estimated Return on Investment (ROI) of 10:1 for Phase One.**
  - SPAWAR Chief Technology Office, Oct 2002 study found the cost of the manual collection/assessment method was \$630 per record
  - TXC Phase One costs (12,000 records)... \$60 per record
  - Out year costs should drop to less than \$6 per record with 90% of costs carried by the customer-base
- **Provides web data services to several Navy and DoD information portals... e.g., DON IM/IT Virtual Community (27,000 potential customers)**
- **Uses existing Navy data feeds (i.e., Certified Product List) with “pointers” to more detailed information sources**
- **500,000 Central Customer Registration (CCR) and 1.1 million Fedlog businesses partners are pre-registered in TXC**

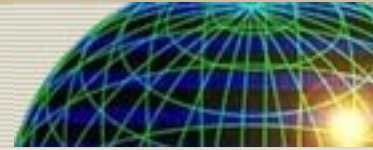


## Where Does It Fit?

- **TXC is a module within the Navy Data Environment (NDE) / SPAWAR PEO Integration Data Environment Repository (SPIDER)... core component of the DON eBusiness Office**
- **Authoritative Source... S&T resource for all of DON**
- **TXC offers User and Data Web Services to any authorized portal or application within DON**
- **TXC is on the “edge” of analytical methods\*... sophisticated classification and search techniques**

\* Note: The prototype of TXC was able to analyze thirty-four dimensions of interest in near real-time. There is no theoretical limit to present version of TXC.





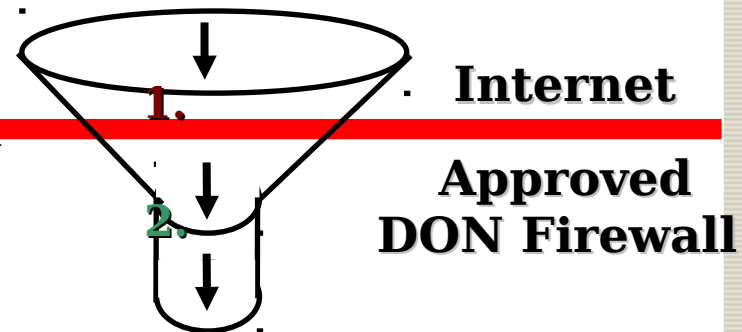
## TXC... is an eBusiness Process

### 1. Technology Owners...

- register
- are approved for input
- describe their technology in a “standardized” format

### 2. TXC Automated Tools...

- filter raw data
- categorize by capability and physical attributes
- add “DON” information
- map information to Navy architectures,  
(Mission Capability Packages)



### 3. Technology Users...

- search using powerful 21<sup>st</sup> century tools
- permissions-based access to information
- “instant” trade studies, or capabilities assessments
- web services available (for portals or applications)



# **The Actual System...**

# Technology eXchange Clearinghouse



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login

Registration



## TXC Login Page

Enter your User Identification

Enter your Password  
(Remember Passwords are case sensitive)

Forgot your password? Click [Here](#).  
Click [Here](#) to register.

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Space and Naval Warfare Systems Command

Welcome today is January 05 2004

- Hello Thomas George
- Your last logon to the system was on Mon Jan 05 10:04:36 GMT-08:00 2004
- There have been 0 failed attempts to logon since your last login.
- You last changed your password on Mon Jan 05 10:04:36 GMT-08:00 2004 To Change your password [Click Here](#)
- Edit my contact information [Click Here](#)

Current Reports

- None

Product Watch Portlet [Customize](#)

Name	Date Edited	Who Edited
<a href="#">Make More Money Tool</a>	2004-01-05	Unknown Assailant
<a href="#">Make More Pasta Tool</a>	2004-01-05	Unknown Eater
<a href="#">Lots a' luck Tool</a>	2004-01-05	St. Patrick

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**SPAWAR**  
Space and Naval Warfare Systems Command

**Enter your Product's Meta-Information Step 1 of 3**

Product Name\*  Product Status\*

Product Acronym  Product Part Number

Product Keywords\* **Enter keywords that relate to your product that a user may employ to locate your product on the Internet.**

Naval Change Request Number  Base Unit Cost

Description\* **You may enter text of any length into this field. you may additionally format text in this box with standard HTML tags, which could include links to take the user to your public web site, etc.**

**All entries with an Asterisk \* are mandatory entries**

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### Enter your Product 's Meta-Information Step 2 of 3

**This step is important, it gives you the opportunity to categorize your product so when Program Managers, Procurement Specialists, Engineers, Architects and the multitude of other people looking to purchase products will need this information to be displayed the right product at the right time.**

**Use the navigator to click through the process and add the product into the commercial matrix at all the points you feel are correct for your product. When you click an endpoint a form will be displayed in this window, just check the boxes and save your selections. When you are finished just click the "Next" or "Finish" buttons to commit your product.**

- General Literature
  - ☐ General
  - ☐ Intro. & survey
  - ☐ Reference
  - ☐ Miscellaneous
- Hardware
  - ☒ General
  - ☒ Control Structures and Microprogramming
    - ☐ General
    - ☒ Control Design Styles
      - ☒ Hardwired control
      - ☐ Microprogrammed logic arrays
      - ☐ Writable control store
  - ☐ Control Structure Performance Analysis and Design Aids
    - ☐ Automatic synthesis
    - ☐ Formal models
    - ☐ Simulation
  - ☐ Control Structure Reliability, Testing, and Fault-Tolerance
  - ☐ Microprogram Design Aids
  - ☐ Microcode Applications
    - ☐ Direct data manipulation
    - ☐ Firmware support of operating systems/instruction sets
    - ☐ Instruction set interpretation
    - ☐ Peripheral control
    - ☐ Special-purpose
  - ☐ Miscellaneous

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Space and Naval  
Warfare Systems Command

	Entry Id	Name	Status	Author	Description	Created	Edited
NEW	5	Bug Wonder System	Active	System Admin	Never test another line of code again with the Bug Wonder System. It completly tests code that is written in Java, C#, C++, Visual Basic or ALGOL 67. When testing is completed bugs are logged and the Intelligent Semantic Universal Parsing Correction System (ISUPCS pronounced I-SUPE-IX) reads the error reports and repairs error that range from syntax to semantic. For the month of January if you order the sytem you will receive a lovely coffee mug set of bug cup and ISUPICS warming cover, so act now!	2003-12-30	<a href="#">Edit</a>
NEW	1	Internet Packet Cleaner	Active	System Admin	This appliance produces at least 60% more bandwith on your network or your money back, it may also cause you to lose 15 pounds in only 10 days. If that weren't enough the first 30 buyers will recieve the George Foreman Cubemate grill. Make great tasting burgers, steaks and chicken right there at work with only 1/3 of the fat.	2003-12-29	<a href="#">Edit</a>
NEW	3	Smart Firewall	Active	System Admin	This firewall lets bad guys in but not out. They can come in but the packets sent to them are red herrings to give us time to track them down. This firewall also does smart routing and replaces the need for any network head end router. For a limited time offer you get this book, Internet Security Using Window 3.11 by Microsoft if you act now.	2003-12-29	<a href="#">Edit</a>
NEW	2	Uber- Java	Active	System Admin	This language compiles and writes all your code from simple pictures. The language guarantees to be 175% faster to write, deploy and execute than Java.	2003-12-29	<a href="#">Edit</a>
NEW	4	Uber- Java Server	Active	System Admin	This server does it all, e-mail, application services, file sharing and it does it all because of Uber-Java Operating System. All you need to do is add pictures of what the server should do and blammo it does it. For a limited time you get a case of 360K floppys for use in backing up your system up, these floppies come in a rainbow of colors and are guaranteed to please.	2003-12-29	<a href="#">Edit</a>

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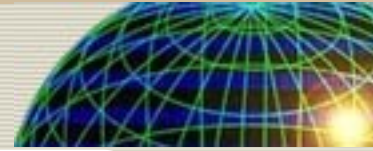
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**(More Slides... Search  
Functions)**





## **The Current Team...**

- **DON eBusiness Operations Office**
- **Space and Naval Warfare Systems Command (SPAWAR), San Diego (Echelon 2)**
- **SPAWAR Systems Center, San Diego (Echelon 3)**
- **Department of the Navy Chief Information Office**
- **Central Customer Registry (CCR)**



## **Point of Contact...**

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Manager,**

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**URL of TXC registration page...**

<https://TXC.spawar.navy.mil>